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# National Geographic Magazine Magazine

AN ILLUSTRATED MONTHLY

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#### THE

# National Geographic Magazine

Vot. VII

NOTEMBER, 1898

So. 11

### THE WITWATERSRAND AND THE REVOLT OF THE LITLANDERS\*

By General F. Reducen, United States Geological Success

The South African Republic, or, as it is more often called, The Transval, lies in southeastern Africa, between the Limpopo or Crocodille river on the north and the Vaul river on the Limpopo or Portuguese and British possessions abut it off from the Indian ocean on the east, and the country to the north and west of the republic is also British. The Vaul niver is tributary to the Orange, which flows into the Atlantic, while the Limpopo oursties into the Indian ocean. The watershed between these rivers is the Witwatersrand, or white-water-range, which trends nearly cast and west about south latitude 20°, and is therefore only 100 geographical miles from the tropic of Capricorn.

The Tenesvall may be roughly described as an elevated plateau, most of which less between 4,000 and 6,000 feet above sea level. To the north of the Witwaterstand the general level is not much over 4,000 feet. Immediately to the south of this watershed, near Johannesburg, the elevation is about 6,000 feet, gradually diminishing toward the Vant. The general aspect of the country reminds one of the Laraceas plains, but the minfall averages about 30 inches, and the climate is mild and equable. The soil is only moderately fortile, and to years ugo the country was considered fit for nothing but pasterel occupation.

The Witwatersrand, in the neighborhood of Johannesburg, consists of upturned edges of a thick mass of quartries, shales, and conglomerates, known as the Lower Cape formation. These

<sup>\*</sup> Paper rand before the Engineed Goographic Society, Calebor 16, 1806.

rocks are of Paleozoic age, but carry no feedle. The conglomerates of this group almost all contain more or less gold. The most famous names of the Transvanl are opened upon a certain set of these conglomerate beds known as the Main Reef series. Resting unconformably on the Lower Cape is another group known as the Upper Cape and containing one bed of considergrate, the Black Beef, which has been profitably worked for gold at some points. An extensive sheet of delomite forms one menber of the Upper Cape. Unconformably on the Upper Cape lies the Tracesic carrying very extensive bads of soal, one of the transcress of the Transvani of which little is heard amande of South Africa. As the country is also rich in iron over, one may expect to hear more in the future than in the past of these coal fields. Meantime they supply the gold-mining industry with good and cheap fuel. The Lower Cape formation, with the Main Beef series, is exposed only to a limited extent. Within less than 20 miles of Johannesburg, both to the east and west, the Upper Cape and the Trassic beds flood the country, and for a long distance only an occasional glimpse is to be had of the Lower Cape with its nuriferous conglumerate. It is said by various engineers to reappear occasionally for hundreds of miles from Johannesburg -as, for instance, in Zululand - and to be more or less auriterous wherever found. It need hardly be remarked that the search for the Hain Reef beneath the Trias is most arduous. That it will eventually be traced far beyond the surface exposures of the district is quite certain.

In this paper the Witwater and district alone is of especial interest, but is conveying a general notion of the Transvard it must be remarked that this is by no means the only suriferens district in the republic. There are four other districts, containing in all ten mines, which yield at the rate of over \$100,000 cash annually. Of these the Klerksdorp district carries gold in conglomerates. In the three other districts the gold is found in ordinary voins. The Sheba mine, in the De Kaap district, has yielded over \$5,000,000. Four of the important mines he in the Lydenburg district, and one the Sutherland, in the Zoutpansburg district. The total gold product of the Transvant for 1895, outside of the Witwatersmad, was \$3,581,000, white the Rand alone yielded \$35,110,000. Statistics show that the yield of the outside mines is increasing about as rapidly as that of the Rand,

The consequence it may be union that the Union Sunce produced in 1865 \$15,015,500 worth of gold, or about \$3,000,000 more than the Transport.

The great gold deposits of the Rand are beds of conglomerate, known in South Africa as "banket" or " reef." They crop out for scape 27 miles at a distance of from one to two miles from the erest of the Witwatersrand, and usually dip near the surface at an angle of 15° or more. When followed downward the dip diminishes somewhat rapidly to 25° or less. Name of the mines are yet very deep; none in fact reach 2,000 feet, but the reefs have been found by the diamond drill to a depth of 2.5(8) feet. The structure of the country seems to show that below the 2000foot level the reefs will continue for a long distance at a moderate angle. How deep mining can be carried on may be more or less questionable, but the mining engineers on the Rand confidently believe that they can get down 5,000 feet, and I agree with them, The ore of the Rand is phenomenally uniform for an auriforous deposit. While it is locally patchy considerable areas show only moderate fluctuations from a general average. The quantity of gold can be computed with something like the same confidence that the amount of coal in a coal seam can be calculated. Such a computation is in the nature of things only a first approximation, but within certain limits it has a value. Estimates of this kind for the whole area or portions of it have been made by various experts, among whom may be mentioned Mr Hamilton Smith, Bergrath Schmeisser, of the Prussian mining service, Mr John Hays Hammond, Messes Hatch and Chalmers, and Professor De Laumay, of the Paris School of Mines. These estimates accord fairly well. The latest is Professor De Launay's, who, after a review of the other estimates, calculates by a method of his own that to a depth of 1,000 meters (2,381 feet) and for a length of outerop of 25 miles the amount of gold novessible is 13 or 14 milliards of francs, or from 2,000 to 2,800 million dollars. This would give down to the 5,000-foot level from 3,962 to 4,267 million dellars. Other of the estimates, similarly treated, would give still larger values. Hatch and Chaimers, on the other hand, estimate that the Rand proper, together with outlying portions of the district (all within about 20 miles of Johannesburg), will yield down to the 5,000-foot level about 3,500 million dollars. I have not been able to find any grounds for regarding this as an overestimate, and I know of no one familiar with the deposits who thinks it exaggerated.

The sketch of the character and resources of the Tennavnal just given contains nothing new. It has been outlined in order to indicate how it happens that a community has suddenly sprung

up at Johannesburg, composed of enterprising, highly intelligent, and perhaps somewhat impations men, building from many
different lands—men as different as possible from the pactoral
pioneers who compose the South African Republic. The Boers
and the foreigners, or "Lithanders," as they are called in Dutch,
were not congenial and the great mining camp has all along constituted a menace to the peace of the Republic. As every one
now knows, the threatened danger was not averted.

The dramatic incidents which have taken place in the Transread during the post ten months have drawn the attention of too whole world to that country. The interest in these events felt in the United States has been little less intense than that in Great Bruain. This is entirely natural, for many of the leading men in Johannesburg are Americans; indeed, the mining industry is chiefly under the guidance of American engineers, and the United States was represented on the reform committee by seven menbers. It really behaves the American public therefore to know how prominent American representatives of an important profession have believed themselves under trying circumstances. While there is a natural sympathy in the United States for Anglo-Saxons taking up arms for their rights, we, as Republicane, also sympathine with the South African Republic in the endeavortemaintain its independence. This fellow-feeling makes it all the more interesting and important to examine carefully and, if haply such a thing is possible, impartially as well as carefully, into the causes and conduct of the revolt.

I wish this inquiry had fallen into other hands than mine, but I happened to visit the country in April for a stay of some months; several of the condemned men are old friends of mine as well as colleagues, it miturally fell to my part to make such efforts in their behalf as I could, and still in spits of these personal relations it is clear to me that there is much to be said on the Boer side of the questions at issue. So far as opportunities go, therefore, I am perhaps in as good a position as any one can be to review the circumstances without projudice. The great difficulty in this, as in any inquiry of an historical nature, is to assertain the facts, for these are differently represented by different though seemingly well-informed persons. I trust it will be found that I have measurably succeeded.

It would be impossible to understand the conditions which led to the grievances of the Uitlanders without considering some of the influences which have made the Datch colonists or Boers what they are. The floers are most closely related to us ethnologically, but their political and industrial history has been so different that jealousles and antagomeros have arisen which, though highly regrettable, are by no means without excuse.

The Baers, like the English, are is the town of Tentanie blood, with a relatively small infusion of French stock. Like the English, they are stubborn, self-reliant, fond of the chase, and admirably adapted to cope with the difficulties incident to colonization in a country occupied by savage beasts and still more savage men. The Pour ideal seems to be life on a large estate, with pleaty of sport and the occupation of not too exigent stockbreeding and farming. So far their tastes do not differ greatly from those of many Kaglishman, but they are for the most part ignorant of the refinements of life so dear to advanced Aughe-Saxons, and perhaps on this account they are almost devoid of the commercial instincts through which such tastes nuight be gratuled. They are, it is said, usually able to read print, but for the most part their reading is confined to the Bible. They are highly religious, and the Bible appeals to them as to few other peoples, because the scenery and material conditions of the Book are so similar to those by which they are surrounded. The very animals are the same. Their religion is somber and purituaired : it is that of the Old Testament, with little aweetness or mercy in it. Under normal conditions the Boors are generously hospitable and they are brave. It is true that Englishmen have sometimes revited them as cowardly but their whole history, and particularly the buttles of Boomplasts and Majuba Hill, shows the contrary. The accusation seems to be due in part to the fact that like all continental Europeans they are greatly averse to fisticults, and partly to the fact that in fighting with rither they avail themselves of cover whenever they can. Taking advantage of cover I understand to be a well-established principle of all modern tacties.

Many of them are said to be matruthful, at least in matters of budgess. This is not strange, for it was long ago observed that financial responsibilities do more than the mean stringent religion or than annability and bravery to foster a high standard of truthfulness. The Boors are sometimes spoken of as a degenerate race, but this is certainly a slander. They usually possess an excellent physique, and it is perfectly well known that one or two generations of education put the Dutch colonist

on a par with men of any nationality. The struggle for existence and for freedom has saved them from meand stagnation. That they are backward as a race, according to our standards, is true. Much of the seventeenth century still charge to them, but they have lost none of the capacity for advance. The most important of all the characteristics of the Transvard Boor is his presion for freedom or, what in his case is tantamental to the same thing, his horror of British domination. In 1880 the women of the Transvard urged their sons and husbands to area, bidding them die like patriots, if need were. This passionate horror of English rate is an historical development. The liners have had little apportunity to observe how mild and beneficent English rate can be under certain circumstances.

Cape Colony passed into the possession of the British Crown by force of arms in 1806, and was formally coded by the Prince of Oznage in 1814. The white population of the Cape at that time consisted of the descendants of Datch colonists and French Huguerats. The latter had found their way to Africa through Holland after the revocation of the Edict of Nantes in 1685. At no true did the Huguenois exceed one-sixth of the colonists or if the Dutch East India Company a servants are counted, oneeighth of the total European population. The colonists had little intercourse with Europe during the 18th century. Like other colonists of the time, they owned shares, their lives were postoral and agricultural, and, except for the Bible, their studies were confined to woodcraft. The petty impositions of the Dutch East India Company had made them unscrupalous so far as transactions with the government were concerned; the incorporlds enrelessness of Hottertot servante had weakened the habits of cleanliness which they had brought from Holland, and the presentation of slaves and produced its terms deleterious effects.

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Idack drow down on them the wrath of the rassionaries, who were extremely influential both at London are. Cape Town. There seed, a to be no doubt that it a Datch were a presented as for prope engel to the natures than they really were, while the

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In magrature into the wilderness, the Birers unturnely cause more context with the manyes, not the progress of the P and States, we read a for a the West toget of Africa, and the P and States, we read a for a the West toget of Africa, and the plants of the Lange at a suggest but to erbot break, which includes the Zalus, Made a character, see. These people are of a dark broaze line, and care good athletic figures. They possess none expellent traits but are horribly error when once they have enoting those. The Language people to have remained the expension of the same to a as five Europeans, known good Hottentons end has any and another tribe, effectively again test to errors.

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<sup>4</sup> Mr. N. E. in 445 and T. Sone Wester and of the inflator promition which does a appropriate of animal contract the national contract of

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I no National I made but foreign no part against the in dependence of the republic, their idea being either to frighten the administration into generating pairwa of greens era or at lakes to

once. So have a introduction would treat comparement to be a constant, and a structure transmit the tolery. Thus, in the

if, in sood, he readened goward for remaining to has rescue of at-

The Joinn sence a minufesso, lettering its demands on Docesisber 26, 1895. On the 30th news was received that Dr Joinnes a ball crossed the larger, evaluary to agreement and in state of

the boundary. The same day the references that the non-formed expressive because, as the notice to prombers states, Jamese in coseing the border "tenders it i eressay to take a take at the store for the defense of Jamese its and the preservation of order." Before them, in the inorm gof the 31st time ballers received in fore at a free on Jamesen's attrival the limit in tag would be brokers. This was ported to indicate for all parties. Without may be next on their own part, the references were made partners in an attempt at conquest instead of reformation. For the American the same the sametion was purchasilarly grave. For an American to

only American among the hadors, took the apartoprists step as



The state of the s

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war d bave but those a first section, nearly tendes. It is not ownered at any member, or loss American or languals, demonral to the casts.

The reform committee was a great and another of erorsequenced in the Limite to the arming of the Limite be expected as an least a location upper of the anomality of the second limit be expected as an least a location upper of the anomality of the necessary of the anomality of a last their necessary of the formality of a last their necessary of the formality of a last their necessary of the last of t

esse now forteneously, it seemed needful to the diffundamental engineer to it in the diffundamental engineer.

Americans. Mesers T. Meles, Joseph Stary Curts, and Vater the unit are were known, by him that i need States and in Africa es not a perfect and managers; Mr.C. it is botters is a memorial treatment of gold ores; Mr.L. I king is a partner in the min no owning from a S. Namearon & Co., Lordon and Mr.P. 3. Lingt and is a on or morelant. These men joined the common new are extent to be in the did to the process of the latter start of the latter deep that the latter deep partner had become in according to went extent to be latter deep to the stop to matter. They mentions that near most first of all they stop to matters. They mentions that near most first of was now lived to matters. They mentions that near most first of was now lived to matters. They mentions that near most first of was now lived to matters. They mentions that near most first of was now lived to matters after the precedur as

may a same of a mounts of relativery or one turpret. Of earo-

id by to assect in a carrier from U threshow or I urghess it out it ere

any sup of these Americans, honry of the Ling somen assocates with them were equally gas these. It is now easy for Lie shoot to see that the An exembs we this have seen weset to take to part into a calcarders' resold. In toosa December days, so the other card, it was very difficult to steer no even course over the

tree and of Punchana mee. If some of our mon west ashore tree money there are taken their broken as we men; there has seen no at-

conduct, at may rate, has been such as we expect and have a my the expect of Agreements

Jameson and his trusport were englated well, all their doctna ts a dieven the key to their e, but disput hes. The det are rechargons had lower their arms, and most of the reagren comthe temperature of. At the extrustion April four of the loss rs." and a cong Mr Hummon Lybers and gives your relation of nonneed to high tremson with the remainder possibilizatily to less imposts. I executing Mr. Carrie, who was consider by threes in Capa Town. His transitions post, according to a leaders were or a lowered to central on April 28, but too next day their sentence was returned to Alcen years' impress most. The reak as I file of the reform comparation were given thereas of a aprinon agent ranging from a few nonches to a couple of years. For some warms no further up to gation of any anon-was upurant adjated faring the interval the or recrusive t took occurs on to sculd add therefore and blune hiptarget from Jameson's parky, allowing it wered becare had seen O a plot to deprive the regulation of the arteriordence. Such of the mass of the reformancing equal a policial for makey were 1 in the darged, on paymer but a travel CLARRecars. I wo of thrus only, noth Englishmen refuses to sign sex appeal for elements, and the see ger to ones, whose attatude scenes to most

Early in Joseph Incomendation were relianced or pays and of the lowery flue of £20,0% each. They were given perfected some to recan in the Transvisal on conductor of eigenest a pledge not to

refused to do, so I be was promptly escorted to a cheerer. Mr. Custos, when sufficees the conversed for the very doneses is those, resembled house I in July for train, but refused to a leading by The general near the near neclasses, to proceed non-neclass as the plant of not grain, a creater by hereafter as was could to reoper. the

contr. at all £2000, the amount 1 is a men as were l'ood, to the court so of its Transvas, not corring to take per insert accuration of his exact, him produces

The surrey I per he dames a and bug theres to the him she

<sup>&</sup>quot;The Uses on Landaged, one of the free locatery left the numeric before the access of the reference creater these. The nature sentence were Mesery Leader Landage Philips,

The principles principles in the second court the second confidential and the followed by the first control and the principles are the second to the first the second by the principles of the principles of the second to the second by the principles of the second by the second by the principles of the second by the second by the principles of the second by the second bigs of the second by the second bigs of the

not be two by the government of the francount and the franchese questions at the class a sed of the dwellingers. The besider was could in out to the contract private granted the status of a first class rate contents afterward granted the status of a first class rate contents at mean at the analysis of the traders were remarked in the Transvar as a toposis but redexensive. The share of first can be rated as a formal toposis but redexensive. The share of first can be rated as a formal toposis but redexensive. The share of first can be rated at the formal base of the theory of the part of status of the characters.

to et once ma se rough a la the Pransenal. The Listup fore are again a pieces og for ref. ross. Lat thore is no threagant of revolt. The

what a same of pasters do monds

The Reference, the man very able more in theorems professions, only one is not be pupped in the common of men who said a preserver to relative on the form and the corrects had the latest a country of the latest engages of the form error or and out wrongs was lossed advantage of to exem by in to a reason and out passing with the constant. The Transvanlactorism entationed attain the constant plantage of the relative over a shadow of excess for relative the latest the neture contest which followed a splayof an asystems for which the neture contest which followed the splayof an asystems for which the neture contest which followed to excess for relative for some of South Africa made british logoments.

the Cape to locate. The hond of sympathy between the Boers of the Cape to locate. The hond of sympathy between the Boers of the past few months. The Africander Locates in Lupe Collay, a the Boers, is made stronger than it was not be whole race now sees in the Transvari, where he are not be tested at intell-

has not last out these available. It seems toosy as if the post

the there if Prosess in the overled Germany of forty or a years over. The war is a nature is in a space of the still a shift at two los-

or attented a larger more proof unberest and note it in from the west thence with their limbert

## THE ECONOMIC ASPECTS OF SOLL PROSON

#### by DR N. S. SHALE.

Professor of the dayly in Discount Conservely and John of the Laurence

As the scattered drope of a shower gather into streams the water kep as to not in an ensive way. If the gathering takes to assault for epoch is which this to expend on its path to the sea. We in the ring course down on highly has the first stage tents. In the threatest division of a over system we always furtile surface ones into stocked pad values. Indicate from first to a finite a composed of representative and indicate from first to the ring degrees on in reconstruct and another the surface of the present is always moving deal of the stream. There is for a short to the river elements. Commonly the movements of these early to a few lines or a few methers a year; that y to a finite two

to the many of animals. Community the movements of these partiing to a few horse or a few medies a year; two years from your from

are covered with a thick layer of sail. Daring the movement

gravity in times it to go. Are a og at the marge of the intrenta-

turned fields. So leave as the earth is cornered by the normal facet growth the strong roots are likely to pass through the soil and fix themselves in the creviers of the underlying these are compassed to a seak, the losse materials in their place. In this way as a rose shout that one of the effects of deferest, or a coorder, are not a loss of the cities of the forest, or a coorder, are not not seed that pate as which have soil coesaway to a restriction. As yet this country has not been long enough extends to the ce-

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changed. Period the prost striking are to be four last to Apchange, near Piercure, wante it to possible to walk for a senior meantum slopes welcoult solves book on anything at them make field a which a century of so ago been reason forests martenal at a feet at if a 4 deep, some. The last of the Stellers who held there we also accreased has been the timber we nount any previous for the replacement of the cross, which is not that has fine so a one than the to of their procession from places, was sweet eveny. It has been a great area has been decimal to agolong eternity and it respect on he desolute which might with

to yourself of other

The non-time age contress of the old Mart 1, which contract result as of large rock slopes which down to recent extracts were freeze of a solar time destructive; the confine as benefice associated at the contribution of the annual to a an rose itself at a very serious way, you in the Appellich and we can sociate at a trapparately. Because of Lemisgrounding there as, according to my received grounding to a concrete. In the extraction that a facility receivery, an appear at earth of not less paratitives thousand at major of he were suffered to the cold has two destribes, but and of the content of the start three thousand at major is referred as a facility of the contribution of the works and the consequent flat the contribution of the works and the consequent. At the rate at all and the process.

be perkensed at 1 a less a n one landred square to be set with the property and rule on the property and rule on a product se repuesty which may be essentiated as suffer at to sustain a popular to a of a toousand people.

In or an locing the descript on which the monomorphism is in a brug upon a non-dry ward, as subjected to the fact of a vidual and the most operated high a to be used into those of the liberated distribute, for all a record that there the alone are, on the average, steepest, the rate all is prentest, and the metion of friet or most come acrosto. There the process of enespect is the tones cape a find the results are the most area minutes. There are, in according to be in the country or in any other where the waste due to broke is not a demonstrate. There are, where the according to the country of it and other at a positive, where the according to the according to the country of the state of the positive.

increasing that step of thinge is to sent a stantof to enterly souther from the fiel at a trace attention and then onto the sens. The case observer who will walk for a critic and trace if proposed as a magnific tonks of a minutestream is okely to their that some of the tributaness carry water which is nearly element to the others descharge a very maddy flow. Examinate the cause of the difference has will note that the rotatively observed or grows, while there are has will note that the rotatively observe or grows, while there we do are very maddy grave a large proportion of their area number place eathers. While an extraction of a prevential trace than to greater in proportion to the steepness of its slope, there are productably on fields, in women slight their lochvity, with a are not exposed, or the same conscients their lochvity, with a are not exposed, or the same conscients their lochvity, with a are not exposed, or the same conscients by the first lockwist, with a are not exposed, or the same conscients that their lochvity, with a are not exposed, or the same conscients by the same states had of was a greater it is the

expecting the natural growth of a son that, here any be rule to petch only repeated a getation. However carefully the work may be decreased whatever the nature of the copy, the earth is for the tire based to the assaults of min are a wan

The justime may well be asked whether, if the locally erosal a is a processory element, of billings, it is not certain that in time at the ands were go on their way to the sea, and the east, thus be under white or the two of man. The above to this is that the tracker regiment of the east provides a way by a, i.d. a certain notified whole is to make many or to decrease a locale.

pled cit by the er hon of that part of the non-water which does not flow owner a surface but for is its way into her sequences in the form of district springs or more count only in the bread sit sheet of water which is it was founded and the wed-rock or the hard pain that, it sat to too orange

no crossive offset. What nucleon it takes away—a relatively goal paramet—as a moved in solution. Penetral against the box rock, the water, clarged with carbonic and a fend other components which a late to its decay-branging efforts, a successive ocl

stummer plants brings the hard star es into the state of so. I delike way the matural wasan served from the solutions effected by the and remain become, the cuttaing and seller no. 1, and 1 are

In the state of nature the rate of degradation of the earth's marked over a region anchies the Missessep is railey appears by the state of Europeans and Althought to be not far from each feet a five thousand years. At this rate of enesing we may from a similar product a present a period of the wearing actions, and so the soil rather gains than lose and pits. I take root piete things, such as to new argined the role of now asserting will, a readly excerte as greater, but what exists in the valley of the Po, where the further resolution that the first exists of no a one for the solutionary and replacement of the soil name we may be sure that the unitary and replacement of the soil names we may be sure that the unitary and replacement of the soil names to compensate for the wear is, and that

#### . Its of this country.

In fore prosessing to a restrong of a cost really economic nature—those with hierarchitecture was because for as to mass for the prosesses and reast of cross in on two of the nature turbates of sort standard prosesses and assets to these country turbates of sort standard assets to and chose found on the allows a flore hearter the track of sort of these constitute about ones. The first of these places constitute about ones.

the second profit a histon, or agreepate area, but on account if the excessing agreement green and forther as of a most equal to eage those

in galegated quetriets experience shows that she method do structive cross a are read ruly stants. This is owing to the falt

state on the remaind on boosely accregated to at the greater part

of the man-water enters approach court and true is preserved from doing ensure work. The result is that even in times of theid the actions among from these fields covered by glacial doors are near very not thy; they have no important a divide

which are even a prominent for one of the etreams of the flow from their gar steel regular. In an obtaining each creek of two slight that it they give us no concern, except on the steel or meaning

ring a quantum by our own the latter rooms.

The street is best these not leave them is reverted level of the bond-

sectionics, and thought a rate water to presty sure to expension or approach of an entire about.

on the same one in it by the decay of the bod rocks. It is to take constant superfects, gain in finite materials to it it by and their part are value of execute. A say all or usure, however surected to peraline areas of execute that brongs that at by and lateral so up in of the error chain els to understant their food plane. These paralies, pead the while more are important for the erent rivers through their felte accountabilities are important for the reset that the glare first easily controlled and are either disastered to the account easily controlled and are either disastered to the account easily entrolled and are either the move-the execute cases to the execute the entrolled to the entrolled that the entrols the execute cases the entrols are of the entrols to the entrols to the entrols. In this teamer that the material to the entrols the local entrols the same the election and the easily performed to the entrols.

The putared check to their variations of a river will one in the pertained automates to one growth of trees upon its banks.

them to do not in places where their roots and stems are not all by the floods for a case became part of the year. These forms I are fine roots which other gottle sediments deposites at high water, and they have a habit of growing in case or lar, so that their thick set stems arrest the carrent and conse a plential deposition of sediment on the gravet which they arrange. If gotha forest develops on one side of a river while the balls on the opposite above a barner are a titles proceed in the result again.

re worn nearly. Then you of the secretar-entiretings are read y ex-

constructed by the positing of case trees, these changes our be considerably calc wildly the proper use of such decouses.

herein a large or aloung pool tof view, it was readily be seen has the company of the great reversare not very seen ma, and thus for the reasons that the area removed on the or e

on the other spile. It work newsee with the similar estimates where

present a name ist either bank. In these mans the wassers to

the section is noted that produce the second of the section and the section is noted breaking from certain state established I have one be in the country in the basest of the third river espect a various part of it which I as to the so with of the norm is treating the rock read that server a regardful removal of the forests in an a first loss that server had a posts to describe the first torset section.

#### this action.

We have now glaused of 1 in soveral mosters in which the sour convey, a paramage through the instrumental type I the min is the marks, and the min, tooks to corone and detail covering of the earth on which the substance of a land I for enough. We may note the supring grap the involve that the actions of the waves expend ally irrespondent at a proposal graph as a fact and by the data if the more of the lands, at a proposal graph of a solwhy that the indicator offset on time is unconstant a very mon. Moreover, as not part of the lands is work as a very mon. Moreover, as not part of the lands is work as an examplement on as get only made by the additing of chermony shows the occan level. The work of the walls in blowing many the late. A cartificiation is a lite is made in the solution of the rain of regulation. It is when we come to consider the notion of the rain that for an income the solution of the rain that it we fire an income face in face with the

the t In the stars of mature the lands are provided against the

conting. If many sortions the carth unifor the saule could time as the other emotions of two last, he would not assturb the as-

dear not beautiful relations of the earth at I as long four latin this case the westing of the soil would go on but at a sate on

of the bud-rocks. The cout marks woo d genduo, y he lowered

do and and more or a resource by the direct wearing not once fifther

or at in this determine.

The present we man disturbed the error of react the section more than did the lower a sures. He made never fitte entires

to began I a made expect as a coverator. He been as a section of a made expect on of this art began the grouped essentiation in the reconors of the earth that he ever been instituted to a loving hang. Each extruse of evolvation las without to the lief of destroys on, and a reacty of evolvation las without to the lief of destroys on, and a reacty of echaif of all the lane as su good to the taxages. It is now a question reacther hand a cover wait a rests upon the use of tan and, can draw and

source of life so that it may support the mean of the new to come. If the neum of be done, we must have freeness to the time time—remote it may be, yet clearly discountible—when our must, having wasted the great toberstonce, will falls from the certh because of the rule in the account tehal. It should be the province of some to provide way to the recovery for the new

It seems to me to be the point of fire maportanes to make their to she people the constitute of the order of the his people with our description to an its resources. To make the trade the trade the trade the trade to know that the make the trade to the trade to the trade of the trade of the section of the contract on the soft the combined operations of the share of the contract on the soft the combined operators that the trade of the contract of the contract of the combined operators the combined operators that the trade of the contract of the contract

or send a street of the springer but the very 1 is ted description of the streets of the springer but the core a continually presented so a more than or expensive

the bed-rooms, a process by which the all is despress and en-

#### THE ECONOMIC AND TOTAL OF SOIL EPONION

undergroted and we letter that a programmer ref. In the co-

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of teenviry the underlying rock, and where would be most useful or descrope? The so of treather

A or eight it beyong difficult to trake a newly overtwhent out safe from the assaucts of the room, I believe that with a careful at man horse way seem intend system of tallage it can be done at least transland two tatenters can be place it stought a more of that

to encure for y used on tostrome at which is an effectively serves to encure the carrie, so that when he few meles of ground talled become necked with water the fluid memor panetic terms that deeper part of the carrie. The rouge of for this in prious net so that the earth of the five emec of the foot of the carried due to the carried of the five emec of the foot of the carried at the earth as were not to the second of the constraint of the second at a continuous transfer over which it passes. When the freet penetrates deep y, the over which it passes. When the freet penetrates deep y, the

the effect of the procent at me abrest all the ke especially those from south an part of this constray, the artificial land parameter of all the order between the land which has been into under the pion with a like arms with an average correct to show it a true to ensure of this action. The order is for a few in see in depon modernity peo, but at a lower sevel as so have that water can peak rate it only the powers; the offer parameter text peak rate it only the powers; the offer parameter text and to so great a depth that the rate

yet becalierden uit.

There is now of its runnent which will time the noting the manuscrift for ending a fore war hid market pack the moder

movement of the water. As my fraction woo know the unitary of many arces to the flow that the many larve to produce or seeks a for a relies crable time to come a that o ancient, but to my mand by no mouse venerable, under the allegation by each the alternative of male has after the each the page the power of which is the exitations of male the many the power of which is the exitations be multimized. In the first pages the took

plantil to made as deep as it well can be. The yord source in a

new in her tout the water would have to pass over the purhase The were known, that und a puly little med, process of a decident where ag if the rectify there is also a valuable time is of effecting the personal in an amorate of water, to deploy an galactents. collinguate end. The certain property of the southern states of the courter, we ere the east efforts of the surface flow may forced thereaselves a on the attention of the people, the formers lave over I to guided up, not the doctract we action of this agone by for the thereforery beaches is the eliquing fields. In the Olf World the system of bonching that it coulds in correct in it a faither there it is in any part of the country. In theremay, himsee and Itsay to a greater part of the hand it at less on seep deel virus Week la layer not seen but 1958 to pun in the orgh r and hes to neore alive agriculature is now protocold from desimperious. Alenough we reac expect a constant gap a in the apparation of this conservative treatment of our fle de, we cannot bak to it all he for their safeguarding. Another class of promators determed by the chance of confidence of the country a 1st be taken, and Litabilities will be seen white-

the og to the fort that he North America generally the sunfit also of the bure is to report all characters the period with some times gr and we sat at the term k. The or much community on Figure part at 1 to the first t at these descriptionings are likely to occur on good of which ms could resented by the front, our so is are exposed to a reason its of sugar much greater than tant which it emposes the firstly of the Ora World. There a pears to be a stone way by want he we may mood that da ger-t as ledy I am ag the work or the one to the see flower which have a degree of alope so a glot that with property age if cy heav he the exposes to scouragact an A shough this el seafleation has to be an le for each district a cl ersomer of soil, it may in general bursa I that no fire I which has a greater at part. I five feet west on, in one has ned feet of reagon socially in any construction be exposed to the datager when oresidary enopping tall ets. Areas from this targethe of the int on appeared to therew they rate of clope, or to a thexinemic of

ring I need into the state of press hards, but all soil I get up

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the thore than is recovery to remain them in this state. A cores Laving a sierce of more than fifteen feet to one hander a should, by the rules which the conservator of the same a testing to lay down, he devoted to forests, when a sit of the only

ceremon at the loss of fortanty.

It may be asked how those rules can so enforced. After much conscious of the tautier, have suited of that our city relative is not an education which we about a upon our people be only they now to the series. Can folk are out fill, at every step on our radian co they have striven, not for the intention profit, but for the good of general main come. If the main number of the notice has not research by knowledge, we can trust to it for the rancely. If we construe not true to the state of main and after so filled of this construe, not can, to the state of main are not extended for the uncentry, not the true to the rance of the top a scrope way is not are fitted for the uncentry, as the people of the period of the period.

lays down law for my rose, for a below in aread or stack. Teach thougward to god prouse to the rikind ansignet them have

p ust, a the first of this knowledge.

it is most, to be any loved that there is not in our seb job a sangle back to tell the years what every one should know con-

which the generation to which he belongs may pass on the

and wonder enforced through the exections of these was appealing to about the tests, and who are welling to about for the tailing of

of the demand ration of the Borra themselves, of the status

and y into which the tepulle defiel, of the danger I'm gen-

Here made in and of the strongeness offerts of the president of I of the same and the return of large temperature of its " at permitted to the first temperature of its " at permitted to the same of its " and to induse it to be for a confederation with the Billian on these on the most laft to be formation of an analysis to be said.

pred a never ig the parind in question."

An writers are agreed that at that time too boers were unterly trable to defend the medies against he ratives, it out for our tief to the first had set in resident analy defeate and protection for the remarker and property readd be so used in vity the payment of blackmed to the nature of refs. To add to the demonstration at the partial by the success of the Kathes at the partial, a galaxies a created by the success of the Kathes at the partial contest were active to be their own possibilities as the any proper conception of their of hearting as a created government. The

where assistant a memoring attitude, and a configuration that would have everywes it in while of South Africa secret on the verge of breaking out. Whether is floors had at that in every

their energe of sy the firstship reds more depreted on low, but it is not to aspect to their time, they exchanged their independent dovereignty, each as it was, for tiretish protection, if not with an embassion at variance with 1 our ston I cause see, at least with the each size and satisfaction and a manifest measure of rejust

Two years is a little more after the pin regain to of the Trans-

t sewayo. Three months later secondary, too Radix ch effact t was see buildary show the complete werthrow of the hours had seen argely one, some second to Beloch acutionty. Thus a de-

the Bore republic which took place the following year

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I have the two cases are not an avery respect analogous, the correct analogous, the correct analogous of the Rocks are

<sup>\*\*\*\*\*</sup> Appreciant Analysis Cytotologica, Sely Earles Volta, 1.1. \*\*6-\*\*\*, Advelope, \*\*Afficiant "Charles Colomy," and \*\* Proposite, Report 1.24" the after the Bank of Facts the our look are, Sele Colomy, and parts.

tions of the In hand. It is not the haton I government that is remorely at facts at a percent but the maker the trace of the energy of a new growth, too I a agradour. In not cases, become up, is the row stry are maker not is one to conditions to take possess of the too great to be research by these restions a consess at I did ments appreciately because the possess of the possess

### SOCIETY SESSION 1805-107

Second Meetings, believe 2, 1826 — Provider t Hambourd in the claim Cine-Pressount terms of decreased are not be seen to the energy tree Progress with ejectors reference to heigh rutiness to the Arche Regions and Africa.

Aperiod Mark of Periodes 20, Ideal.—President Forthland at a class. An American F. Deschor Product passes, with footow-ships (Boston cone, on The William terration as I am I steam beest larged.

Special Meeting, therefore sat, rated there was also being the name our Rev. John S. Black our sto, of St. Augustique Fin., addressed the Supersylven The Propagation for the United States, a district of the pidebes we be haptern so by

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cutation 3. W. t. Bend Dr. John B. Cotton, Wim. 11 Instruction, Mose & In Leading Grow E. Franch May. Chiment des Crandiques (Franch L. Landoux I. Mes M. R. H. r. Chur. W., Lattie, Mes Rose McCalie, James A. Sachara, I. Sandes, Prof. J. L. Sande, W. t. Stock, Mrs. P. M. Stockers, Chur. W. Theoryes. W. M. Van I. des Frank C. Warman, Florebee White. 1992 East M. Wilson, Dr. James Woodbook, W., Renker, Woodbook, Mass. M. Zastmerman.

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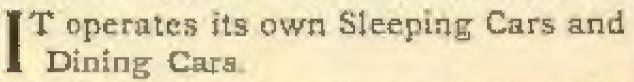


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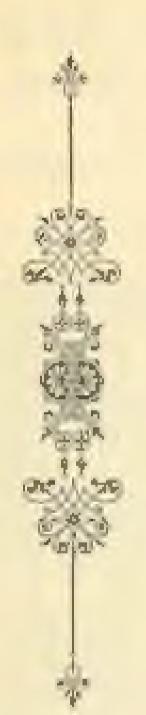
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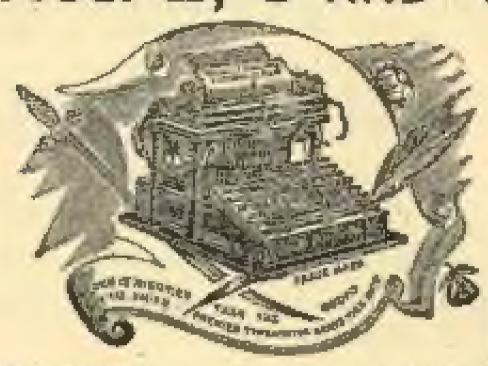
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